

WHAT IS CLAIMED IS:

1. A connector mounted on a board having a plurality of board signal lines for transmitting a signal and a board ground line grounded, including:

a plurality of signal terminals formed in correspondence to the respective board signal line, each of said signal terminals comprising:

a signal core line formed of conductor by extension in the shape of a line;

a shield for core line formed of conductor insulated from said signal core line electrically so as to extend in an axis direction of said signal core line and enclose said signal core line;

a signal electrode formed by extension from said signal core line for connecting said signal core line with said board signal line corresponding to said signal terminal; and

a plurality of ground electrodes extended from said shield for core line and opposed to each other by intervention of said signal electrode for connecting said shield for core line with said board ground line respectively.

2. The connector as claimed in claim 1, further comprising a housing holding a part of each of said plurality of signal terminals by two lines side by side in which a first row and a second row are parallel to each other, wherein,

the connector is mounted to one side of the board on which its front face is parallel to said axis direction,

said signal electrode of said signal terminal in the first

row is faced by intervention of said signal electrode of said signal terminal in the second row and said board,

said signal electrode of said signal terminal in the first row is connected with said board signal line formed on the front face of said board, and

said signal electrode of said signal terminal in the second row is connected with said board signal line formed on a rear face of said board.

3. The connector as claimed in claim 1, further comprising:
a housing holding at least a part of said plurality of signal terminals in the predetermined arrangement orientation side by side; and

a side surface parallel to said axis direction and said arrangement orientation in said housing is formed in the shape of a wave protruded in the direction perpendicular to said side surface respectively in each position holding said plurality of signal terminals.

4. The connector as claimed in claim 3, wherein said housing holds the plurality of signal terminals by two lines side by side, by zigzag arrangements of a first row and a second row disposed parallel to each other, and

in said housing, said side surface close to said first row is formed in the shape of a wave protruded in the direction perpendicular to said side surface respectively in each position holding said plurality of signal terminals in said first row, said side surface parallel to said second row is formed in the shape of a wave protruded in the direction perpendicular to said side surface respectively in each position holding said plurality of signal terminals in said second row.

5. The connector as claimed in claim 1, wherein a part of vicinity of an end close to said ground electrode in said shield for core line is formed so as to enclose said signal core line by generally semicircle, and said signal electrode is formed by extension in the direction apart from said shield for core line and generally perpendicular to said axis direction.

6. The connector as claimed in claim 5, wherein said plurality of signal terminals are disposed by arrangement orientation side by side to which the extension direction of each of the signal electrodes directs.

7. The connector as claimed in claim 1, further comprising:
a housing holding said plurality of signal terminals;
and
rivets fixing said housing to said board.

8. The connector as claimed in claim 7, wherein said connector is connected to other connectors opposed to the board by intervention of said connector,

said housing has housing through-holes formed by penetrating it from a face supposed to said connector to its rear face,

said board has board through-holes formed by penetrating it from a face supposed to said housing to its rear face in correspondence to said housing through-holes,

said rivets are inserted into the housing through-holes and the board through-holes in the direction from the housing to the board, so that one end opposed to said other connectors is accommodated to the housing through-holes and another end

is protruded from the rear face of the board.

9. The connector as claimed in claim 1, further comprising:
a housing holding a part of each of said plurality of signal terminals by zigzag arrangement of two lines consisted of a first row and a second row parallel to each other; and

two positioning members prescribe a position of other connectors connected to said connector by forming to protrude from the surface of the housing in a position forming zigzag arrangements with the terminals, so that the members are adjacent to the signal terminals respectively disposed on one end of each of the first row and the second row and are faced each other by intervention of said plurality of signal terminals.

10. The connector as claimed in claim 9, wherein said housing holds said signal terminals of the same number respectively in the first row and the second row.

11. The connector as claimed in claim 1, wherein said connector is connected to other connectors having a connected core line connected with said signal core line,

said signal core line is connected by engaging it to said connected core line in its end,

said shield for core line includes a circle-shaped extension part protruding from an inside surrounding the signal core line to the signal core line by extension in the shape of a circle surrounding the signal core line in the vicinity of one end of the signal core line.

12. The connector as claimed in claim 1, wherein said signal terminals are engaged with each of the signal core line and

the shield for core line and are connected to a connected terminal having a connected core line and a connected shield,

one side of said signal core line and said connected core line is a core line terminal of male type, another side is a core line terminal of female type pressing that outer face by an elastic force in inner face contacted with outer face of said core line terminal of male type,

one side of said shield for core line and said connected shield is a shield terminal of male type, another side is a shield terminal of female type pressing that outer face by an elastic force in inner face contacted with outer face of said shield terminal of male type,

when said signal terminal and said connected terminal are connected, one side of said signal core line and said shield for core line is contacted with said connected core line or said shield for core line prior to contact with another side.

13. The connector as claimed in claim 12, wherein, when said signal terminal and said connected terminal are connected, said shield for core line is contacted with said connected shield before said signal core line is connected to said connected core line.

14. The connector as claimed in claim 13, wherein, until a tip of the shield terminal of male type is inserted into a predetermined position inside of the shield terminal of female type, said shield terminal of female type presses outside of the shield terminal of male type with an elastic force to increase gradually according to advance of the tip to inside of the shield terminal of female type,

after the tip of the shield terminal of male type is inserted

into the predetermined position, the signal core line is connected to the connected core line.

15. A connector including a plurality of signal terminals for transmitting a signal and a housing for holding said plurality of signal terminals,

said signal terminals comprising:

a signal core line formed of conductor by extension in the shape of a line;

a first shield formed of conductor insulated from the signal core line electrically and accommodated in the housing so that the first shield encloses the signal core line by the extension from the vicinity of the tip of the signal core line to an axis direction of the signal core line;

a protrusion part protruded in a direction depart from the signal core line and formed by the extension from the termination end of the first shield to be locked in the surface of the housing; and

a second shield formed of conductor insulated from the signal core line electrically so that the tip intervenes between the signal core line and the first shield in the vicinity of the protrusion part and the second shield encloses the signal core line by the extension from the tip to an axis direction.

16. A connector including a signal terminals for transmitting a signal,

said signal terminal comprising:

a signal core line formed of conductor by extension in the shape of a line;

a shield for core line formed of conductor insulated from said signal core line electrically so that a part in the vicinity

of one end of the shield encloses said signal core line by semicircle by extension in an axis direction of said signal core line;

a signal electrode formed by extension from an end of said signal core line generally vertically to said axis direction, in the direction depart from said shield for core line, and nearly to another end of said shield for core line; and

a ground electrode formed by extension from another end of said shield for core line generally parallel to said signal electrode.

17. A connector mounted on a board, comprising:

a signal terminal for transmitting a signal;

a housing for holding said signal terminal; and

a rivet for fixing said housing to said board.

18. A connector including a signal terminal for transmitting a signal,

said signal terminal comprising:

a signal core line formed of conductor by extension in the shape of a line and connected to a connected core line of other connectors that is connected to said connector by engaging their ends; and

a shield for core line formed of conductor insulated from said signal core line electrically for including a circle-shaped extension part protruding from an inside surrounding the signal core line to the signal core line by extension in the shape of a circle surrounding the signal core line in the vicinity of one end of the signal core line.

19. A connector including a signal terminal that is connected

to a connected terminal with a connected core line and a connected shield,

said signal terminal comprising:

a signal core line formed of conductor by extension in the shape of a line for engaging with said connected core line; and

a shield for core line formed of conductor insulated from said signal core line electrically so as to enclose said signal core line by extension in an axis direction of said signal core line for engaging with said connected shield;

one side of said signal core line and said connected core line is a core line terminal of male type, another side is a core line terminal of female type pressing that outer face by an elastic force in inner face contacted with outer face of said core line terminal of male type,

one side of said shield for core line and said connected shield is a shield terminal of male type, another side is a shield terminal of female type pressing that outer face by an elastic force in inner face contacted with outer face of said shield terminal of male type,

when said signal terminal and said connected terminal are connected, one side of said signal core line and said shield for core line is contacted with said connected core line or said shield for core line prior to contactation with another side.